

FIG. 1
PRIOR ART

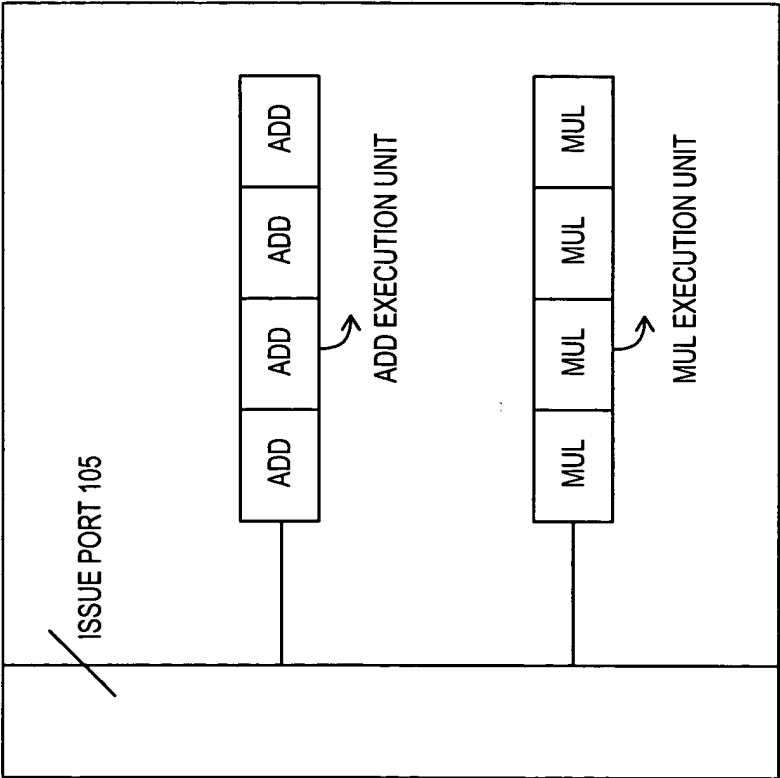


FIG. 2A

TIME	
T	ADD X, Y
T + 1	ADD A, B
T + 2	MUL X, Y
T + 3	ADD S, T

FIG. 2B

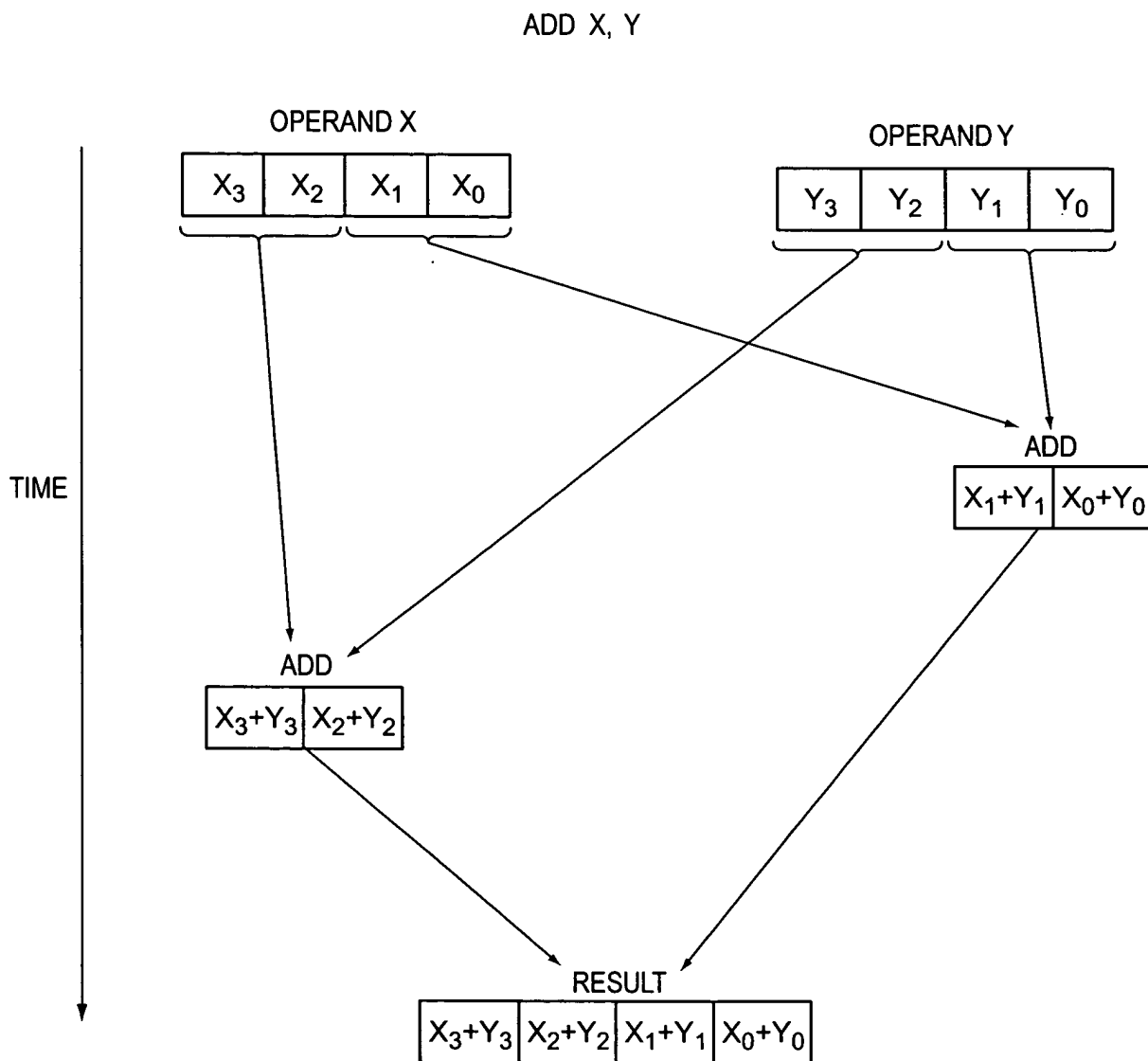


FIG. 3

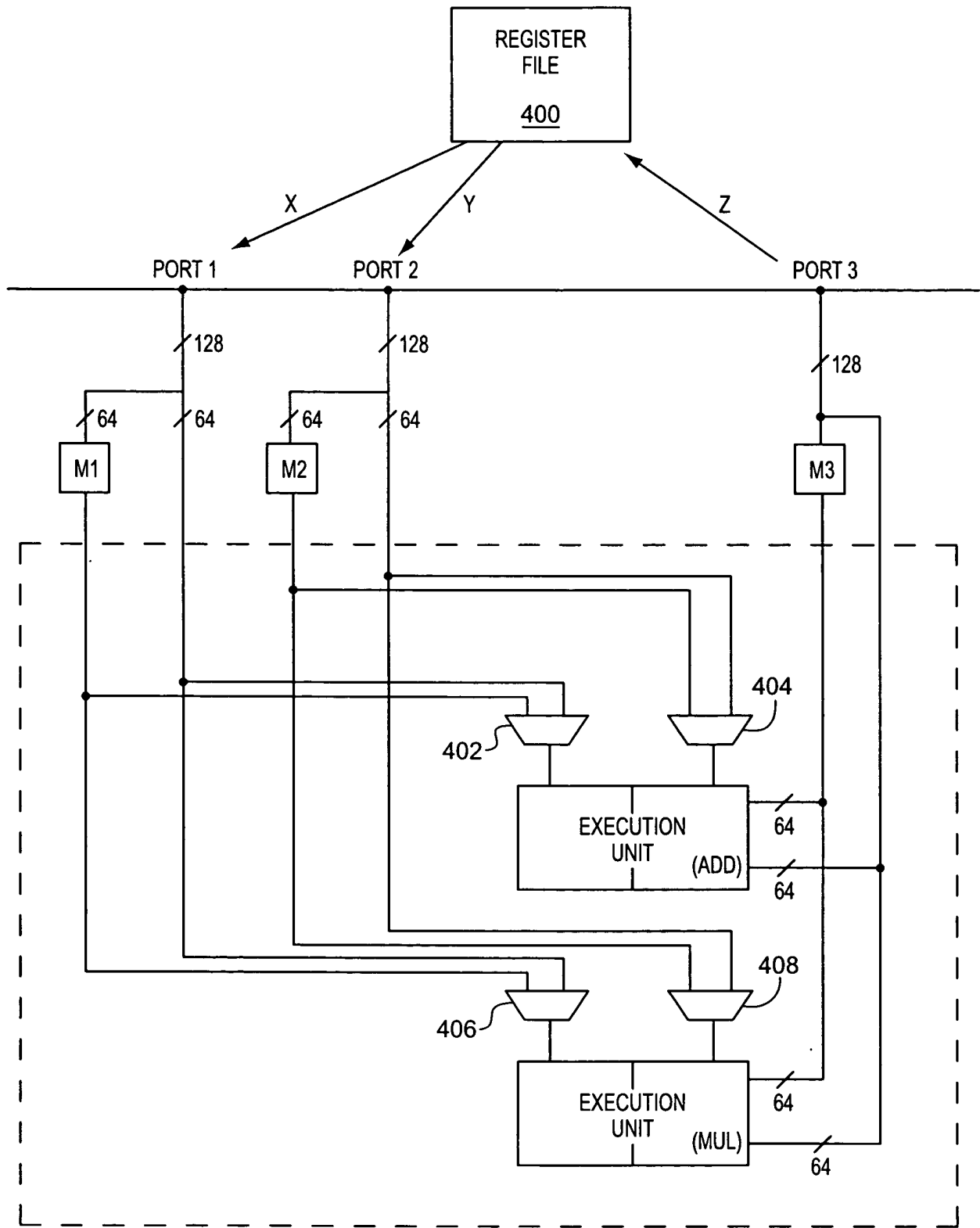


FIG. 4A

TIME	128-BIT INSTRUCTION	PERFORMED ON 64-BIT DATA
T	ADD X, Y	ADD X ₀ Y ₀ ADD X ₁ Y ₁
T+1		ADD X ₂ Y ₂ ADD X ₃ Y ₃
T+1	MUL X, Y	MUL X ₀ Y ₀ MUL X ₁ Y ₁
T+2		MUL X ₂ Y ₂ MUL X ₃ Y ₃

FIG. 4B

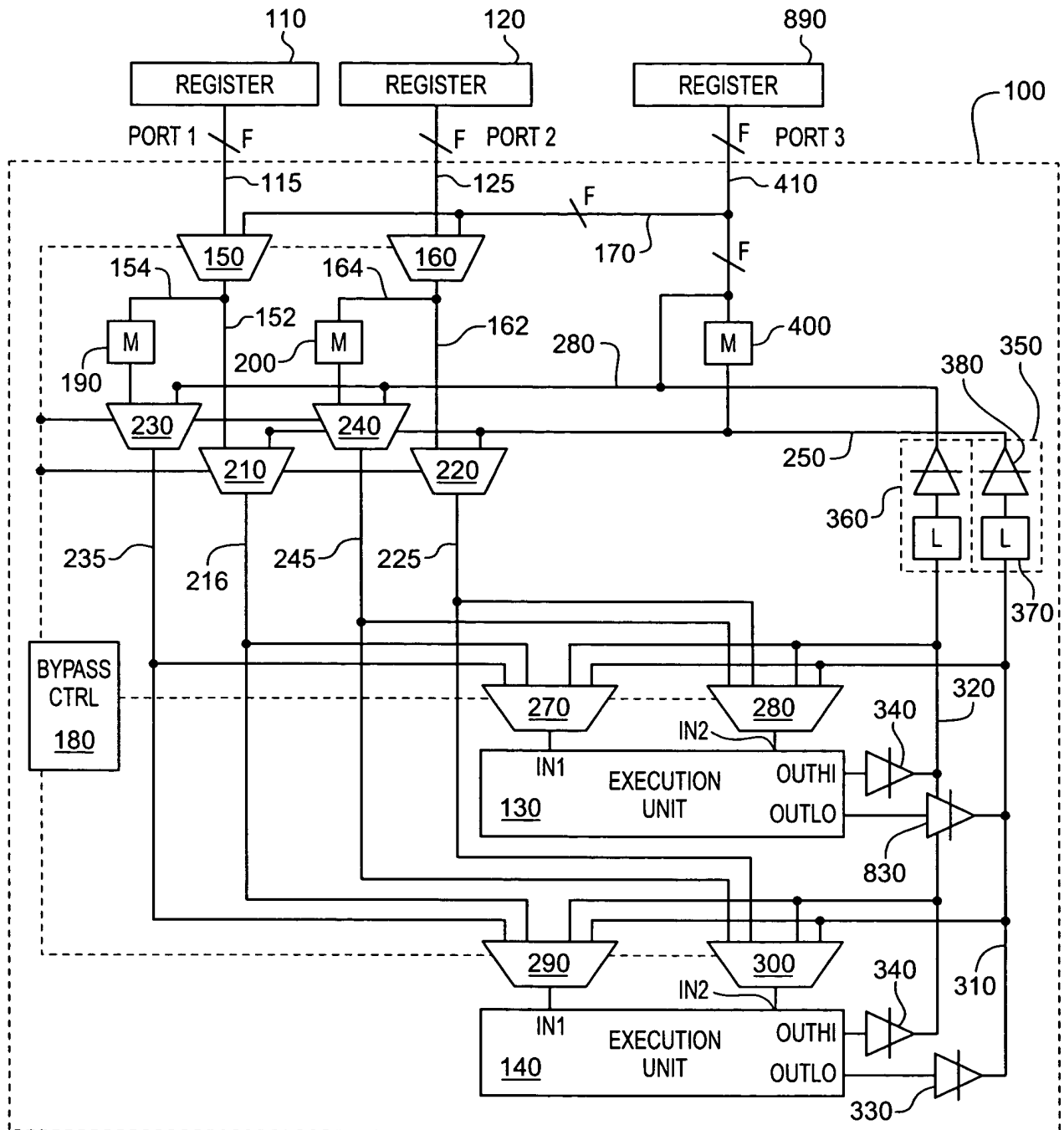


FIG. 5

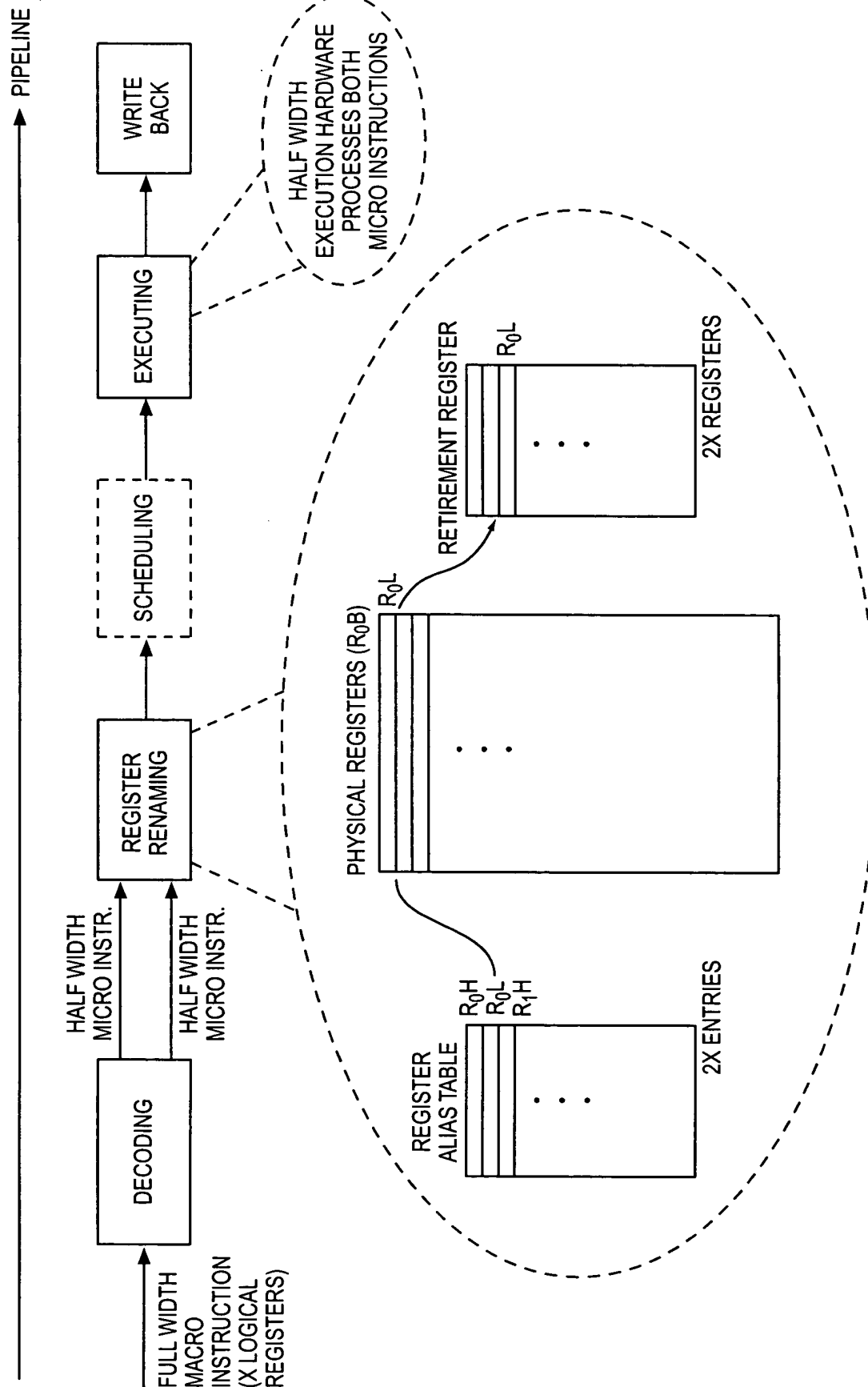


FIG. 6A

TIME	128-BIT INSTRUCTION	64-BIT INSTRUCTION
T	ADD X, Y	ADD X _L , Y _L
T + 1		ADD X _H , Y _H

FIG. 6B